

## EAST Search History

| Ref # | Hits | Search Query   | DBs                                | Default Operator | Plurals | Time Stamp       |
|-------|------|--|------------------------------------|------------------|---------|------------------|
| L1    | 1291 | B26F001/14.ipc.  | EPO; JPO; DERWENT                  | OR               | ON      | 2007/01/24 16:04 |
| L2    | 170  | L1 and (shaft or mandrel or head)                                      | EPO; JPO; DERWENT                  | OR               | ON      | 2007/01/24 16:05 |
| L3    | 13   | L2 and thread\$3   | EPO; JPO; DERWENT                  | OR               | ON      | 2007/01/24 16:05 |
| S1    | 1    | ("3825362").PN.  | US-PGPUB; USPAT                    | OR               | OFF     | 2005/08/08 14:03 |
| S2    | 1805 | ((408/204) or (408/207) or (408/233) or (408/239R) or (408/238)).CCLS. | US-PGPUB; USPAT                    | OR               | OFF     | 2007/01/24 16:04 |
| S3    | 219  | (279/8).CCLS.  | US-PGPUB; USPAT                    | OR               | OFF     | 2007/01/24 15:26 |
| S5    | 875  | ((227/8) or (227/64) or (227/76)).CCLS.                                | US-PGPUB; USPAT                    | OR               | OFF     | 2007/01/24 15:28 |
| S6    | 3258 | ((83/13) or (83/636) or (83/684) or (83/689) or (83/697)).CCLS.        | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR               | OFF     | 2007/01/24 15:29 |
| S8    | 258  | (279/8).CCLS.  | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR               | OFF     | 2006/03/08 14:09 |
| S9    | 320  | ((227/64) or (227/76)).CCLS.   | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR               | OFF     | 2006/03/08 09:09 |
| S10   | 2068 | ((408/204) or (408/207) or (408/233) or (408/239R) or (408/238)).CCLS. | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR               | OFF     | 2006/03/08 09:10 |
| S12   | 809  | S6 and punch   | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR               | ON      | 2006/03/08 09:10 |

## EAST Search History

|     |    |  |                              |    |    |                  |
|-----|----|--|------------------------------|----|----|------------------|
| S13 | 35 | ("0161968"   "1721007"  <br>"1817223"   "2096778"  <br>"2145725"   "2176943"  <br>"2237069"   "2735489"  <br>"3255526"   "3269011"  <br>"3683499"   "3728927"  <br>"3800419"   "4087913"  <br>"4353164"   "4403417"  <br>"4543722"   "4594779"  <br>"4724616"   "4739687"  <br>"4830548"   "4899447"  <br>"4905557"   "5029392"  <br>"5727436").PN. OR ("6981327").<br>URPN. | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2006/03/08 09:44 |
| S14 | 22 | ("1721007"   "1817223"  <br>"2221904"   "2237069"  <br>"3228268"   "3683499"  <br>"4353164"   "4543722"  <br>"4739687"   "4793063"  <br>"4807367"   "4905557"  <br>"5029392"   "5639193").PN. OR<br>("5727436").URPN.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2006/03/08 09:45 |
| S15 | 25 | ("0267751"   "1721007"  <br>"1754568"   "1817223"  <br>"2214701"   "2221904"  <br>"2237069"   "3728927"  <br>"4543722"   "4553164"  <br>"4905557"   "5269011").PN. OR<br>("5029392").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2006/03/08 09:45 |
| S16 | 12 | ("1540860"   "2145725"  <br>"2202513"   "3105299").PN. OR<br>("3683499").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2006/03/08 09:52 |
| S17 | 13 | ("2145725").URPN.  | USPAT                        | OR | ON | 2006/03/08 09:54 |
| S18 | 8  | ("3387637"   "3548687"  <br>"4056152"   "5074722").PN. OR<br>("5639193").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2006/03/08 10:00 |
| S19 | 11 | ("0951890"   "1223485"  <br>"1790439"   "2677881").PN. OR<br>("4807367").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2006/03/08 10:02 |
| S20 | 18 | ("2087186"   "2379367"  <br>"2598975"   "3063319"  <br>"3641860"   "4096776"  <br>"4257292"   "4273015"  <br>"4526077"   "4621556"  <br>"5005458"   "5044244"  <br>"5133237").PN. OR ("5746104").<br>URPN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | ON | 2006/03/08 11:40 |

## EAST Search History

|     |        |  |   |    |     |                  |
|-----|--------|--|---|----|-----|------------------|
| S22 | 1154   | ((83/698.71) or (83/698.91) or (83/699.31) or (83/699.41) or (83/699.61)).CCLS.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/03/08 11:43 |
| S23 | 407    | ((83/30) or (83/954) or (83/916) or (83/919)).CCLS.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/03/08 11:41 |
| S24 | 2182   | ((83/686) or (83/660) or (83/651) or (83/636)).CCLS.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/03/08 11:42 |
| S25 | 780    | ((83/54) or (83/902) or (83/695)).CCLS.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/03/08 11:42 |
| S26 | 357    | S22 and punch  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/08 13:46 |
| S27 | 23     | ("0027934"   "0134214"   "1465793"   "2696744"   "3022686"   "4032251"   "4039266"   "4189266"   "4225275"   "4521145"   "4705436"   "4891887"   "5116353"   "5149234"   "5486190"   "5570978"   "5587252"   "5617619").PN. OR ("6109156").URPN. | US-PGPUB;<br>USPAT;<br>USOCR                | OR | ON  | 2006/03/08 12:02 |
| S28 | 286    | S24 and punch  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/08 14:14 |
| S29 | 0      | S8 and punch   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/03/08 14:14 |
| S30 | 19     | S8 and (punch or die or cutter)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2007/01/24 15:31 |
| S31 | 4      | "4653372"  | US-PGPUB;<br>USPAT                          | OR | ON  | 2006/03/09 10:17 |
| S32 | 147037 | punch  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/08/09 10:49 |

## EAST Search History

|     |       |  |   |    |     |                  |
|-----|-------|--|---|----|-----|------------------|
| S33 | 37210 | S32 and (shaft or mandrel or head)                                     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2007/01/24 16:05 |
| S34 | 9389  | S33 and thread\$3  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2007/01/24 16:05 |
| S35 | 6780  | S34 and (paper or metal or sheet)                                      | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/08/09 10:51 |
| S36 | 5457  | S35 and (aperture or hole)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/08/09 10:57 |
| S37 | 2953  | S36 and (gun or tool)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/08/09 10:52 |
| S38 | 1206  | S37 and tip  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/08/09 10:53 |
| S39 | 282   | S38 and arcuate  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/08/09 10:53 |
| S41 | 3361  | ((83/13) or (83/636) or (83/684) or (83/689) or (83/697)).CCLS.        | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/08/09 10:58 |
| S42 | 63    | S41 and S36  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/08/09 11:07 |
| S44 | 1858  | ((408/204) or (408/207) or (408/233) or (408/239R) or (408/238)).CCLS. | US-PGPUB;<br>USPAT                          | OR | OFF | 2006/08/09 11:07 |
| S45 | 10    | S44 and S36  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/08/09 11:07 |
| S46 | 13    | ("3264907"   "3295398"   "3411527").PN. OR ("3617145").URPN.           | US-PGPUB;<br>USPAT;<br>USOCR                | OR | ON  | 2006/08/09 11:11 |
| S47 | 227   | (279/8).CCLS.  | US-PGPUB;<br>USPAT                          | OR | OFF | 2006/08/09 11:13 |

## EAST Search History

|     |      |  |   |    |     |                  |
|-----|------|--|---|----|-----|------------------|
| S48 | 0    | S47 and S36  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/08/09 11:13 |
| S49 | 954  | ((227/8) or (227/64) or (227/76)).<br>CCLS.                                  | US-PGPUB;<br>USPAT                          | OR | OFF | 2006/08/09 11:13 |
| S50 | 6    | S49 and S36  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/08/09 12:24 |
| S51 | 189  | "409" and ross.xa.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/08/09 12:27 |
| S53 | 141  | "409"/\$.ccls. and ross.xa.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/08/09 12:25 |
| S54 | 50   | "82"/\$.ccls. and punch  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/08/09 12:27 |
| S55 | 4    | "588141"   | EPO; JPO;<br>DERWENT                        | OR | ON  | 2007/01/24 15:24 |
| S56 | 0    | case-gerald.in.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2007/01/24 15:24 |
| S57 | 1    | case-gerald-a.in.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2007/01/24 15:24 |
| S58 | 2124 | ((408/204) or (408/207) or<br>(408/233) or (408/239R) or<br>(408/238)).CCLS. | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2007/01/24 15:25 |
| S59 | 265  | (279/8).CCLS.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2007/01/24 15:26 |
| S60 | 1042 | ((227/8) or (227/64) or (227/76)).<br>CCLS.                                  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2007/01/24 15:29 |
| S61 | 3456 | ((83/13) or (83/636) or (83/684)<br>or (83/689) or (83/697)).CCLS.           | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2007/01/24 15:30 |

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|     |      |   |   |    |    |                  |
|-----|------|---|---|----|----|------------------|
| S62 | 6852 | S58 or S59 or S60 or S61  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/01/24 15:31 |
| S63 | 2429 | S62 and (punch or die or cutter)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/01/24 15:31 |
| S64 | 1108 | S63 and (shaft or mandrel or head)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/01/24 15:31 |
| S65 | 475  | S64 and thread\$3   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2007/01/24 15:46 |
| S66 | 511  | ((mandrel or head or shaft) and (punch or die or cutter) and thread\$3).clm.                                | US-PGPUB                                    | OR | ON | 2007/01/24 15:47 |
| S67 | 294  | ((mandrel or head or shaft) and (punch or die or cutter) and thread\$3 and (hole or aperture of bore)).clm. | US-PGPUB                                    | OR | ON | 2007/01/24 15:48 |